

97-1678-2722
464.1006 CONS

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: SEUL, Michael

Serial No.: 09/688,573

Filed: October 17, 2000

For: **LIGHT-CONTROLLED ELECTROKINETIC ASSEMBLY OF
PARTICLES NEAR SURFACES**

Examiner: P. Do (Group Art Unit 1641)

**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the provisions of 37 C.F.R. §1.97, Applicant hereby makes of record the documents listed on the accompanying Form PTO-1449 for consideration by the Examiner in connection with the examination of the above-identified application. Copies of the documents listed in the form are also enclosed.

This Information Disclosure Statement is being submitted in compliance with 37 C.F.R. §1.56 insofar as an Examiner might consider any of the cited documents important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelop addressed to Assistant Commissioner for Patents, Washington, D.C. 20231.

By Julie Bowker Date: February 11, 2002
Julie Bowker

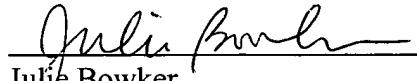
RECEIVED
FEB 22 2002
TECH CENTER 1600/2900

construed as an admission that such document is necessarily relevant or prior art.

Applicant respectfully requests that each document cited in the Form PTO-1449 be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449.

No fee is believed to be due in connection with this submission. If any fee is due, however, the Commissioner is authorized to charge payment of the same to our Deposit Account No. 50-1570.

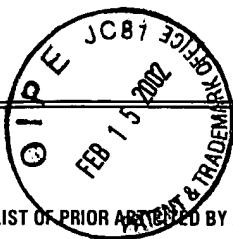
Respectfully submitted,



Julie Bowker
Registration No. 37,870
Attorney for Applicants

Julie Bowker
60 East 42nd Street
Suite 2918
New York, New York 10165

(212) 867-3171

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 464.1006 CON5

SERIAL NO.: 09/688,573

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1641

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	4	9	9	0	5	2	2/12/85	Fulwyler	422	52	8/30/82
	AB	4	6	4	7	5	4	4	3/3/87	Nicoli et al.	436	518	6/25/85
	AC	4	8	2	2	7	4	6	4/18/89	Walt	436	528	6/25/86
	AD	4	9	9	4	3	7	3	2/19/91	Stavrianopoulos et al.	435	6	7/20/89
	AE	5	0	0	2	8	6	7	3/26/91	Macevitz	435	6	10/24/88
	AF	5	0	2	8	5	4	5	7/2/91	Soini	436	501	6/9/88
	AG	5	1	0	5	3	0	5	4/14/92	Betzig	359	368	1/10/89
	AH	5	1	1	4	8	6	4	5/19/92	Walt	436	528	5/19/89
	AI	5	1	3	2	2	4	2	7/21/92	Cheung	436	501	11/13/89
	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82.09	9/4/98
	AK	5	1	4	3	8	5	3	9/1/92	Walt	436	501	2/2/89

FOREIGN PATENT DOCUMENTS

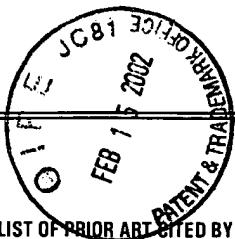
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
													YES	NO	
	AL	0	2	6	9	7	6	4	6/8/88	EP	C12Q	1/68			X
	AM	0	4	7	8	3	1	9	4/1/92	EP	C12Q	1/68			X
	AN	0	7	2	3	1	4	6	7/24/96	EP	G01N	21/64			X
	AO	8	9	1	1	1	0	1	11/16/89	PCT	G01N	33/546			X
	AP	9	3	0	2	3	6	0	2/4/93	PCT	G01N	33/536			X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

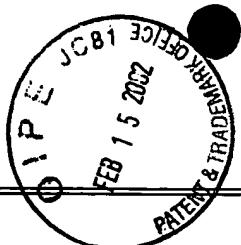
AO	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)
AR	Peterson, et al, "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE								ATTY. DOCKET NO.: 464.1006 CON5		SERIAL NO.: 09/688,573		
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)										APPLICANT(S): SEUL, Michael				
										FILING DATE: October 17, 2000				
										GROUP: 1641				
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	BA	5	1	9	4	3	0	0	3/16/93	Cheung	427	213.31	11/8/89	
	BB	5	2	4	4	8	1	3	9/14/93	Walt et al.	436	172	4/20/92	
	BC	5	2	4	4	6	3	6	9/14/93	Walt et al.	422	82.07	1/25/91	
	BD	5	2	5	0	2	6	4	10/5/93	Walt et al.	422	82.07	12/21/92	
	BE	5	2	5	2	4	9	4	10/12/93	Walt	436	528	4/20/92	
	BF	5	2	5	4	4	7	7	10/19/93	Walt	436	172	9/19/91	
	BG	5	2	9	8	7	4	1	3/29/94	Walt et al.	250	227.28	1/23/93	
	BH	5	3	0	6	6	1	8	4/26/94	Prober et al.	435		1/16/94	
	BI	5	3	2	0	8	1	4	6/14/94	Walt et al.	422	82.07	11/25/92	
	BJ	5	3	6	2	6	5	3	11/8/94	Carr et al.	436	165	5/6/92	
	BK	5	4	0	5	7	8	4	4/11/95	Van Hoegaerden	436	523	2/25/93	
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	BL	9	3	0	6	1	2	1	4/1/93	PCT	C07H	21/00		X
	BM	9	3	2	4	5	1	7	12/9/93	PCT	C07K			X
	BN	9	7	1	4	0	2	8	4/17/97	PCT	G01N	15/10		X
	BO													
	BP													
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	BO	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).												
	BR	Campion, et al. "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis . Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).												
	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388 : 245-256 (1995).												
EXAMINER									DATE CONSIDERED					
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>														



FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 464.1006 CONS

SERIAL NO.:
09/688,573

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1641

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5	4	8	0	7	2	3	1/2/96	Klainer et al.	428	441	5/17/94
	CB	5	8	1	4	5	2	4	9/29/98	Walt et al.	436	518	12/14/95
	CC	5	4	9	6	9	9	7	3/5/96	Pope	250	227.21	1/19/94
	CD	5	5	1	2	4	9	0	4/30/96	Walt et al.	436	171	8/11/94
	CE	5	5	6	5	3	2	4	10/15/96	Still et al.	435	6	4/18/94
	CF	5	5	6	7	6	2	7	10/22/96	Lehnen	436	518	1/15/93
	CG	5	6	3	3	7	2	4	5/27/97	King et al.	356		8/28/95
	CH	5	6	3	3	9	7	2	5/27/97	Walt et al.	385	116	1/18/95
	CI	5	6	5	0	4	8	9	7/22/97	Lam et al.	530	334	6/19/91
	CJ	5	6	5	2	0	5	9	7/29/97	Margel	428	403	1/25/95
	CK	5	6	7	4	6	9	8	10/7/97	Zarling et al.	435	7.92	3/30/95

FOREIGN PATENT DOCUMENTS

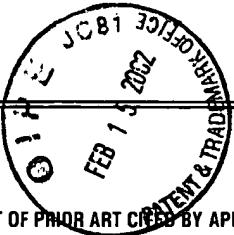
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
													YES	NO	
	CL														
	CM														
	CN														
	CO														
	CP														

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

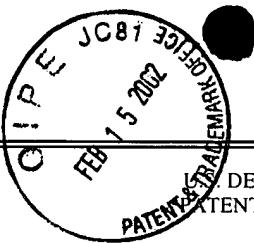
CQ	Grazia et al., "In-vivo biomedical monitoring by Fiber-Optic System," Journal of Lightwave Technology, 13, 1396-1406 (1995).
CR	Bangs, "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (April 1996)
CS	"Fluorescent Microspheres (Tech. Note #19)," Bangs Laboratories (1997)

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE								ATTY. DOCKET NO.: 464.1006 CONS	SERIAL NO.: 09/688,573			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)										APPLICANT(S): SEUL, Michael				
										FILING DATE: October 17, 2000		GROUP: 1641		
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	DA	5	6	9	0	8	9	4	11/25/97	Pinkel et al.	422	68.1	5/23/95	
	DB	5	7	0	0	8	9	7	12/23/97	Klainer et al.	528	15	5/30/95	
	DC	5	7	7	9	9	7	6	7/14/98	Leland et al.	422	52	6/15/98	
	DD	5	9	3	9	0	2	1	8/17/99	Hansen et al.	422	55	7/23/97	
	DE	5	9	6	1	9	2	3	10/5/99	Nova et al.	422	68.1	9/30/98	
	DF	5	9	6	5	4	5	2	10/12/99	Kovacs	436	140	7/9/96	
	DG	6	0	4	8	6	9	0	4/11/00	Heller et al.	435	6	5/14/97	
	DH	6	0	9	0	5	4	5	7/18/00	Wohlstadter et al.	435	6	3/6/97	
	DI	6	0	9	0	9	1	2	7/18/00	Lebl et al.	530	300	11/23/98	
	DJ	6	2	0	0	7	3	7	3/13/01	Walt et al.	430	320	8/24/95	
	DK													
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	DL													
	DM													
	DN													
	DO													
	DP													
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	DQ	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997)												
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMetrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1756 (1997).												
	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).												
EXAMINER									DATE CONSIDERED					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														



FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.:
464.1006 CONS

SERIAL NO.:
09/688,573

APPLICANT(S): SEUL, Michael

FILING DATE: October 17,
2000

GROUP: 1641

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA												
	EB												
	EC												
	ED												
	EE												
	EF												
	EG												
	EH												
	EI												
	EJ												
	EK												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
												YES	NO	
	EL													
	EM													
	EN													
	EO													
	EP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
ES	

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.